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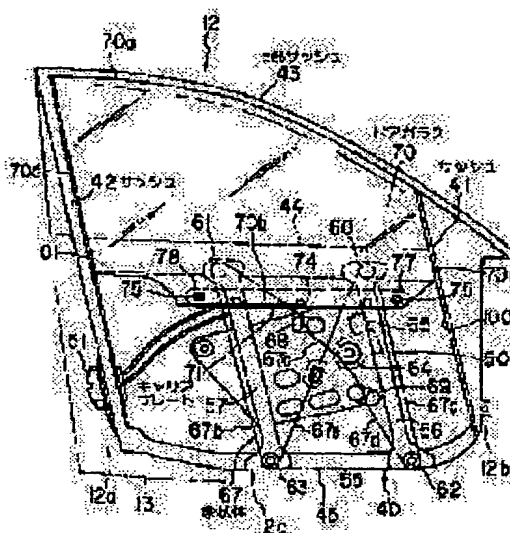
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(54) DOOR GLASS LIFTING AND LOWERING DEVICE

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a door glass lifting and lowering device which has good assemblability and can support a door glass in a stable manner.

SOLUTION: This door glass lifting and lowering device is provided with a carrier plate 71 mounted at a lower end portion 70b of a door glass 70. The door glass 70 ascends and descends along sashes 41, 42 disposed at front and rear sides of a door. The carrier plate extends in the longitudinal direction along the lower end of the door glass 70. Moving portions 67a, 67b of a cord 67 are secured at predetermined latching portions of the carrier plate. The carrier plate is provided with a glass support portion 74 to support a central portion of the lower end of the door glass 70 in the longitudinal direction, and a pair of front/rear glass fixing portions 77, 79 with threaded members 75. Mounting holes formed in the door glass 70 at the glass fixing portions 77, 78 have a diameter sufficiently larger than an outer diameter of an axle portion of the threaded members 75, enabling relative movement of the door glass 70 when the threaded members 75 are loosened.



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- 1.This document has been translated by computer. So the translation may not reflect the original precisely.
- 2.**** shows the word which can not be translated.
- 3.In the drawings, any words are not translated.

CLAIMS

[Claim]

[Claim 1] The door glass lifting device characterized by to provide ***** driven in the orientation which it has [orientation] the carrier plate which has ***** in a predetermined part while it is prolonged in the cross direction of the door glass which fluctuates along with the sash prepared before and after the door, and the aforementioned door glass and ** arrival is carried out to the soffit section, and the move section of a couple before and after fixing to each aforementioned *****, and these moves section synchronizes [orientation] mutually, and makes the aforementioned door glass fluctuate.

[Claim 2] The glass support section among which the aforementioned carrier plate supports the cross-direction pars intermedia of the soffit of the aforementioned door glass, The screw-thread component of a couple before and after supporting the mounting hole which was prepared in the aforementioned carrier plate front and the backside, respectively, and was formed in the aforementioned door glass is provided. Relative displacement of this door glass is enabled to the aforementioned carrier plate by making the dimension of the aforementioned mounting hole larger than the outer diameter of the shank of the aforementioned screw-thread component. The door glass lifting device of the claim 1 publication characterized by fixing this door glass to the aforementioned carrier plate by binding the aforementioned screw-thread component tight in the status that this door glass was raised to the position of the up sash of a door.

[Translation done.]